# ZIRAM® 76DF Fungicide

**ACTIVE INGREDIENT:**
Ziram (Zinc dimethyldithiocarbamate) ........................................... 76.0%

**OTHER INGREDIENTS:** .......................................................... 24.0%

**TOTAL:** ............................................................................. 100.0%

**KEEP OUT OF REACH OF CHILDREN**
**PELIGRO DANGER**
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

| IF IN EYES: | • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.  
| IF INHALED: | • Move person to fresh air.  
| | • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.  
| | • Call a poison control center or doctor for further treatment advice.  
| IF SWALLOWED: | • Call a poison control center or doctor immediately for treatment advice.  
| | • Have person sip a glass of water if able to swallow.  
| | • Do not induce vomiting unless told to by a poison control center or doctor.  
| | • Do not give anything to an unconscious person.  
| IF ON SKIN: | • Take off contaminated clothing.  
| | • Rinse skin immediately with plenty of water for 15 – 20 minutes.  
| | • Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR EMERGENCY MEDICAL ASSISTANCE, CALL THE ROCKY MOUNTAIN POISON AND DRUG CENTER at 1-866-673-6671. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**EPA REGISTRATION NO. 70506-173**  
**EPA ESTABLISHMENT NO. 32557-BEL-1**
ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwater or rinsate.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. Do not breathe dust or spray mist. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of waterproof material.

All handlers must wear:
• Long-sleeved shirt and long pants,
• Shoes plus socks,
• Goggles, face shield or safety goggles,
• Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter,
• Chemical-resistant gloves made of any waterproof material, including polyethylene or polyvinyl chloride.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

PRODUCT INFORMATION

ZIRAM 76DF is effective against many fungal diseases and is non phytotoxic to labeled crops. It is compatible with most commonly used pesticides and adjuvants. It may be used with systemic fungicides, including TOPSIN® M, for broad-spectrum disease control and can be used in Integrated Pest Management (IPM) programs.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

USE PRECAUTIONS

For dilute applications, use ZIRAM 76DF at the recommended rate per 100 gallons.

For aerial applications, use ZIRAM 76DF in a minimum of 10 gallons of spray per acre. For concentrate ground applications, use a minimum of 20 gallons of spray per acre.

For both ground and aerial applications, always use sufficient water to provide thorough coverage.

Use the high label rate under severe disease pressure or when conditions promote rapid disease development.

A crop cycle is defined as pre-bloom through postharvest.

RESTRICTIONS:

Do not apply this product through any type of irrigation system.

Do not graze or feed cover crops from treated orchards.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, is:
• Coveralls,
• Chemical-resistant gloves made of any waterproof material,
• Shoes plus socks,
• Protective eyewear.
## FRUIT AND NUT TREE CROPS

<table>
<thead>
<tr>
<th>Crop, Nectarines</th>
<th>Pounds ZIRAM 76DF</th>
<th>Disease(s)</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peaches, East of the Rockies</td>
<td>1 1/2 - 2 2/3②</td>
<td>Peach Scab, Brown Rot, Red Spot, Sooty Peach</td>
<td>Apply pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest.</td>
</tr>
<tr>
<td>Peaches, West of the Rockies</td>
<td>1 1/4 - 2 2/3②</td>
<td>Peach Leaf Curl</td>
<td>Make dormant applications after leaf drop and/or prior to bud swell. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest.</td>
</tr>
<tr>
<td>Apricots</td>
<td>2 - 2 2/3②</td>
<td>Shot-Hole, Brown Rot</td>
<td>Apply at popcorn, full bloom, petal fall, and/or 5 weeks after petal fall, and in cover sprays, as needed. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 32.1 lbs. (24.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Do not apply within 30 days of harvest.</td>
</tr>
</tbody>
</table>

① Not registered for this use in California. ② Based on dilute sprays of 400 gallons per acre. ③ Based on dilute sprays of 300 gallons per acre.
### FRUIT AND NUT TREE CROPS (continued)

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pounds ZIRAM 76DF</th>
<th>Disease(s)</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Per 100 Gallons</td>
<td>Per Acre</td>
<td></td>
</tr>
<tr>
<td>Cherries East of the Rockies</td>
<td>1 2/3 - 2(^{3})</td>
<td>5 - 6</td>
<td>Brown Rot, Leaf Spot, Black Knot</td>
</tr>
<tr>
<td>Cherries West of the Rockies except CA</td>
<td>1 2/3 - 2(^{3})</td>
<td>5 - 6</td>
<td>Brown Rot, Leaf Spot</td>
</tr>
<tr>
<td>Cherries CA only</td>
<td>1 2/3(^{3})</td>
<td>5</td>
<td>Brown Rot, Leaf Spot</td>
</tr>
<tr>
<td>Pecans</td>
<td>2 - 2 2/3(^{3})</td>
<td>6 - 8</td>
<td>Pecan Scab, Anthracnose</td>
</tr>
</tbody>
</table>

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### ORNAMENTAL CROPS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pounds ZIRAM 76DF</th>
<th>Disease(s)</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Per 100 Gallons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asters</td>
<td>1 1/2 - 2</td>
<td>Rust</td>
<td>Begin application in early season and continue at 7-day intervals or as needed until blossoms form.</td>
</tr>
<tr>
<td>Carnations, Marigolds, Morning Glory, Snapdragons</td>
<td>1 1/2 - 2</td>
<td>Rust</td>
<td>Apply at 7 to 10-day intervals or as needed throughout growing season.</td>
</tr>
<tr>
<td>Carnations, Chrysanthemums, Dahlias, Gladiolus, Snapdragons</td>
<td>1 1/2 - 2</td>
<td>Leaf Spot</td>
<td>Apply at 7 to 10-day intervals or as needed throughout growing season.</td>
</tr>
<tr>
<td>Azaleas, Camellias</td>
<td>1 1/2 - 2</td>
<td>Petal Blight</td>
<td>Begin application with first bloom. Repeat at 7 to 10-day intervals or as needed through bloom. Apply as a drench to mulch and litter beneath and around bushes.</td>
</tr>
<tr>
<td>Cyclamens, Gardenias</td>
<td>1 1/2 - 2</td>
<td>Botrytis Leaf Spot</td>
<td>Apply as needed throughout the growing season.</td>
</tr>
<tr>
<td>Dahlias, Delphinium, Golden Glow, Hollyhocks, Phlox</td>
<td>1 1/2 - 2</td>
<td>Powdery Mildew</td>
<td>Apply at 7-day intervals or as needed throughout growing season.</td>
</tr>
<tr>
<td>Roses</td>
<td>1 1/2 - 2</td>
<td>Black Spot, Powdery Mildew</td>
<td>Begin application when leaves unfold. Repeat at 7 to 10-day intervals or as needed throughout season.</td>
</tr>
</tbody>
</table>

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### ORNAMENTAL TREES

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pounds ZIRAM 76DF</th>
<th>Disease(s)</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Per 100 Gallons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conifers Pine Seedlings</td>
<td>2</td>
<td>Fusiform Rust</td>
<td>Begin application at time of emergence. Repeat at 3 to 5-day intervals or as needed to mid-June.</td>
</tr>
<tr>
<td>Douglas Fir Christmas Trees</td>
<td>2</td>
<td>Needle Rust (Melampsora)</td>
<td>Make one application in the spring when new shoot growth is 1/2 to 2 inches in length.</td>
</tr>
<tr>
<td>Shasta Fir Christmas Trees</td>
<td>2</td>
<td>Needle Rust (Puccineastrum)</td>
<td>Make a single application in the spring when new shoot growth is 1/2 to 2 inches in length.</td>
</tr>
</tbody>
</table>

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**Note:** Due to the continuous development of new varieties of each of the ornamental plants and trees listed above, it is recommended that prior to the first use on a particular ornamental variety, the grower treat a small sample (6-10) with the product at the labeled dose to determine if there is going to be phytotoxicity, including but not limited to necrosis, leaf burn or stunting.
SMALL FRUIT AND VEGETABLE CROPS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pounds ZIRAM 76DF Per Acre</th>
<th>Disease(s)</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blueberries&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>3</td>
<td>Mummyberry Shoot Blight Phomopsis (Twig Blight, Cane and Stem Canker) Anthracnose Fruit Rot (Ripe Rot) Botrytis (aids in control)</td>
<td>Apply in sufficient water for thorough coverage. Apply at loose bud scale stage and 7 days later. Do not apply later than 3 weeks after full bloom. Aerial application is prohibited.</td>
</tr>
<tr>
<td>Grapes East of the Rockies</td>
<td>3 - 4</td>
<td>Black Rot Downy Mildew Phomopsis Cane and Leaf Spot Ripe Rot Botrytis Bunch Rot (aids in control)</td>
<td>Begin applications when shoots are at least one inch long and continue at 7-14 day intervals or as necessary according to the integrated pest management guidelines for the particular growing area. Use shorter intervals under heavy disease pressure. Do not apply more than 28 lbs. per acre per crop cycle. Do not apply later than 21 days to harvest. Aerial application is prohibited.</td>
</tr>
<tr>
<td>Grapes West of the Rockies</td>
<td>3 - 4</td>
<td>Black Rot Downy Mildew Phomopsis Cane and Leaf Spot Ripe Rot Botrytis Bunch Rot (aids in control)</td>
<td>Apply when shoots are 1/2 to 1 1/2 inches long and repeat at 7-10 day intervals as needed. Do not apply after bloom. Do not apply within 10 days of harvest.</td>
</tr>
<tr>
<td>Tomato&lt;sup&gt;1)&lt;/sup&gt; (Do not use on cherry tomatoes)</td>
<td>3 - 4</td>
<td>Anthracnose Early Blight Septoria Leaf Spot</td>
<td>Begin applications at first sign of infection and continue at 7-14 day intervals. Use the shorter spray interval under high disease pressure. Do not apply more than 23.7 lbs. (18 lbs. a.i.)/A per crop cycle. Do not apply within 7 days of harvest. Ziram can be mixed with copper fungicides to enhance bacterial disease control. Aerial application is prohibited.</td>
</tr>
</tbody>
</table>

<sup>1</sup> Not for use in California.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in the original container in a dry area. Keep away from sources of ignition (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal instructions listed below.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
IMPORTANT INFORMATION
READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. and Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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